

## Editor's Note.....

In the tradition of other great editors, I am sorry for this issue's delay. I hope Frank Davis can forgive me. The few weeks have been hectic with wedding plans and the loss of my disk system. The disk disaster is part of the reason for the article on repair services to the left of this column. I hope to have an article on Larken repairs in the next issue.

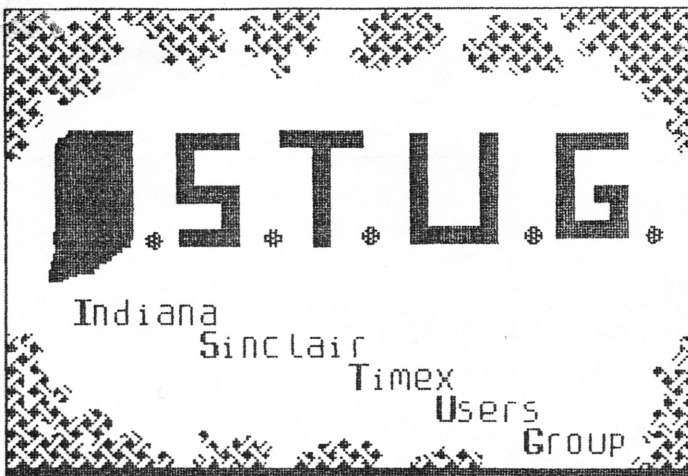
## Bits And Pieces.....

This issue of the newsletter was done using Pixel Print 2.1, and the graphics using Tech Draw and a Radio Shack Color Computer one button Color Mouse. The one button mice work fine with the Zebra TS2068 Graphics Interface. They are currently available on sale at many Radio Shacks. At this time I do not know if their new two button (white) mouse will work with the interface.

As we all know, computer models are kept alive through new and updated software. The computers themselves often do not change much. Take the IBM PC, the original version is still around and kicking--it has been the software that has made it as popular as it is. Therefore, the Sinclair community needs you, the home user to share your own home brew software with the rest of the community. Not all software has to have those "professional" touches, and remember too, that many of those professional programs out there today started as home brew projects. From personal experience I have found numerous subroutines that people have written that are fantastic (see the enclosed flow chart routine, this issue) and are available just for the asking. There are also dealers who will help programmers market their programs. If you have any programs or routines to share, please let us immortalize them in the ISTUG Newsletter!

Yes, it is that time again to ask you the readers for a Sinclair Migration Report. Just drop ISTUG a postcard (or a letter) telling us what Sinclair equipment you use the most, what hardware and what software you like the most, and what you would like to see in the ISTUG Newsletter in the future.

Spread the word...there are hundreds of closet Sinclair users in Indiana alone. Put up a poster (using your favorite graphics program) at your local hack shop, spread the word, Sinclair Users are some of the most friendly people around!



## Need Spectrum Repairs.....

It all happened one evening when I came home from work. At the door I found my girlfriend with a terrible look on her. The first thing I said was "What happened?"

She replied, "There was a pop, some smoke and then it wouldn't come on!"

At that moment I realized what had happened, my Spectrum+128 was zapped by *Power Pack Error!*

Power Pack Error comes from plugging the power adaptor from a TS2040 printer into a Sinclair Spectrum. What happens is that the 24 volts dc from the printer adaptor literally explodes the 705 regulator I.C. A bad 705 is easy to replace in a Spectrum 128 because it is a socketed item. If that were all there was to it, my 128 would have been up and running that evening. Unfortunately, when the 705 blows from Power Pack Error it likes to take as many other parts with it as possible.

My first thought was to call Curry Computer the Spectrum experts. Rob and Debby referred me to a gentleman here in the states who has had some experience repairing Spectrums. Another suggestion from the Curry's was to try one of the Spectrum repair centres found in *Sinclair User*. In particular, one that has advertised in numerous issues with large ads. Being unable to contact the gentleman in the states, I decided to try the **Video Vault** in Derbyshire, England.

The Video Vault claims to be the number one Spectrum repair centre in Great Britain and Europe. It's full page ads can be found in almost every issue of *Sinclair User*. Upon calling them the next morning I found that they do take VISA and that an overseas repair would be £25 plus shipping. I then boxed it up and shipped it airmail from my local post office.

It took just about five to six weeks to return and it was shipped along with a software cassette containing a test

See Repair, next page

## -Wanted--Wanted-

Memotech external keyboard for the TS1000, must work and be in fair to excellent shape.

A & J clear wafers for the TS1000 microdrive. Any size, may be used, but in good shape.

Instructions for TS1000 version of ZX PRO/FILE.

Contact: Mike Fellerski  
2110 1/2 Parnell Ave  
Ft. Wayne, IN 46805

## Do YOU

have a Sinclair item you wish to sell, or an item you need? Remember, **ISTUG** members can advertise in the newsletter for **FREE!** For more information, write Frank Davis, c/o ISTUG, 513 Main St., Peru, IN 46970.

Repair from front page.

program and several games. Also was included was a warranty notice and a software/hardware catalog.

Upon powering up my Spectrum and attempting to load the test program, I found that the Spectrum would not load or save to cassette. It looked as if my 128 was in for another trip home.

Within four weeks my Spectrum returned and was working like new. Although the warranty stated that the **Video Vault** only warranted parts they replaced, the second repair was covered, and I was only charged for postage. I found this to be extremely fair on their part, and I highly recommend the **Video Vault** for all of your Spectrum Repairs. They are both courteous and professional on the phone and in their repairs.

-\*-\*-\*-\*\*-\*-\*-\*

## TS2068 Graphics Exercise.....

Below is a short program for the TS2068 that will plot a three dimensional graph of the exponential function. For the non-mathematical, this produces a graph that looks like...well, you'll see. Type it in and run it. It takes a couple of minutes to plot. It was taken from a TS1000 high-res package,

and was adapted to run on the 2068:

```
30 dim z(250,2)
40 for a=1 to 250
50 let z(a,2)=255
60 if a>140 then let z(a,2)=a
70 next a
80 for f=-50 to 50 step 6
90 let a=f
100 let b=50-abs f
110 for g=-70 to 70
120 gosub 2000
190 next g
200 next a
210 next f
220 goto 9000
2000 let t=int (80+a-(-exp (b*(70-abs g)/800)/80)*80)
2010 let r=a+g+121
2020 if f=-50 then let z(r,2)=t
2030 if t<=z(r,1) then goto 3000
2040 let z(r,1)=t
2050 rem set x and y
2070 plot r,t
2080 return
3000 if t>=z(r,2) then return
3010 let z(r,2)=t
3020 goto 2050
9000 pause 0
```

Have fun, and let us know if you come up with any improvements or other three dimensional functions!

## Advertisement:

### PROMISE LAND ELECTRONICS

Dan Elliott, Owner

*Servicing COMPUTERIZED  
electronic equipment*

#### COMPUTERS / MODULES / PRINTERS / MONITORS

Sinclair QL	TS-2068	TS-1500	TS-1000
16K Ram Pack	ZX-81	Memotech Modules	
Commodore 64	VIC-20	PLUS-4	C-16
Coleco ADAM	TI-99/4A	Commodore 128	

#### REPAIRS / UPGRADES / ASSEMBLING / TESTING

Write for prices:

Dan Elliott

Route 1, Box 117  
Cabool, MO 65689

Ph. (314) 739-1712 evenings, Sunday - Thursday.  
Ph. (417) 469-4571 weekends.

A SPECIAL PRESS RELEASE

FROM: CCAT/S USER GROUP  
OREGON CITY, OR 97045  
AND

FOR RELEASE: July 1, 1988

LOCAL COMPUTER BUFFS TO ATTEND COMPUTER FAIR TO BE HELD AT THE COSMOPOLITAN HOTEL IN PORTLAND, OREGON AUGUST 6TH AND 7TH 1988.

Joint sponsors, RMG Enterprises of Oregon City, and Time Designs Magazine of Colton, Oregon, announced the Third Annual International/Great Northwest TS Mini-Fair to be held the weekend of August 6th and 7th 1988 at the Cosmopolitan Hotel in Portland, Oregon.

The event will include door prizes, vendor and user group booths, seminars on specialty programming, hardware tips and uses of all Timex and Sinclair computers, a round-table discussion, tours of the local scenic area and the famous Portland Zoo.

A number of nationally known vendors will be exhibiting at the fair, including such notables as RMG ENTERPRISE, TIME DESIGNS MAGAZINE, AMERICAN MICRO CONNECTION AND GREY & CLIFFORD COMPUTER PRODUCTS among others.

The seminars will cover such topics as Machine Code programming the Z80 microprocessor chip, Architecture of the 68000 CPU, using Archive database to its FULL capacity, Telecommunications, GIF graphics, an overview of the QL-What it is-What it could be, CP/M on TS computers, and others. Seminar speakers include Mike de Sosa, author of TAKING THE QUANTUM LEAP and QL advocate, Syd Wyncoop, author of the Z80 series of articles in TIME DESIGNS MAGAZINE as well as S & K Software titles including THE KRUNCHER, TRACER and EXPRESS. Michael Carver, current president of CCAT/S, a Timex/Sinclair User Group, Vincent Lyon, author of ARCHIVE MASTER, and several programs for the Timex 2068 and Sinclair QL. And let's not forget Ed Grey of Grey & Clifford, one of our telecommunications supporters, or Jack Dohany, of 2068 FairWare fame.

Scheduled tours for attendees and their families include a Saturday tour of the Columbia River Gorge and a Sunday tour of Portland's famous Washington Park including the Portland Zoo, the World Forestry Center, Oregon Museum Of Science And Industry, the Washington Park Rose and Japanese Gardens. These tours will be provided at a VERY nominal cost.

Local attendees will include...(enter your info here).....

Additional information is available from RMG Enterprises, Time Designs Magazine or the Cosmopolitan Hotel.



```

*****
*
*      QQQQQQQQ      ZZZZZZZZZ      XX      XX      *
*      QQQQQQQQQQ      ZZZZZZZZZ      XX      XX      *
*      QQ      QQ      ZZ      XX XX      *
*      QQ      QQ      ZZ      XXX      *
*      QQ      QQ      ZZ      XXX      *
*      QQ      QQ QQ      ZZ      XX XX      *
*      QQQQQQQQQQ      ZZZZZZZZZ      XX      XX      *
*      QQQQQQQQ      ZZZZZZZZZ      XX      XX      *
*      QQ      *
*
*****

```

The Journal Covering Amateur Radio & Sinclair Computers  
 ZX-80, Micro-Ace, ZX81, T/S 1000, 1500, & 2068

K5XY  
 Alex. F. Burr  
 Publisher

2025 O'Donnell Drive  
 Las Cruces, New Mexico  
 88001

W4GHV/5  
 Bo Barry  
 Editor

#### NEW PRODUCT ANNOUNCEMENT

QZX, a national Sinclair computer newsletter, has just published a 60 page index book.

QZX publishes articles, news, and programs on the use of all the Sinclair computers for communications. Most of the subscribers, who come from all states and over 20 countries, are radio amateurs who use their Sinclair computers in their radio stations.

The index book is a bound xerox copy of all the covers of all the monthly issues since December 1982. The covers list all the articles and programs which have appeared along with the authors and, in most cases, some indication of the specific computer for which the program was written. The index book can be obtained by sending \$5.00 (plus \$1.00 shipping and handling) to

QZX  
 2025 O'Donnell  
 Las Cruces, NM 88001



Dayton Microcomputer Association ,Inc Presents

# Computerfest<sup>TM</sup>'88

Computer & Electronic Convention and Flea Market Dayton, Ohio August 20-21 1988

Computers User groups Paper Disks Parts Books Software Drives Demonstrations

## Features for Attendees

Hourly door prize drawing\*, Speakers, Seminars,  
User group information, product demonstrations,  
Club booths for many different computers

Dealers from all over the country will be here!!

\* you must be present to win. Grand Prizes will include 2 PC/XT compatibles!!

Computerfest<sup>TM</sup>'88 is ALL indoors!!

### Location

Hara Arena  
1001 Shiloh Springs Rd  
Dayton, Ohio

### Times

Saturday Aug 20, 10am to 6pm  
Sunday Aug 21, 10am to 5pm

## Ticket Information and Parking

Admission is \$3.00 each day.

Children under 12 free with an adult.

Acres of FREE!! parking.

Call about our special offer for user groups!!

## Dealer Information

Professional spaces are 8' x 10' with backdrop, 8' draped  
table, 2 chairs and 120 vac provided. Cost is \$85.

Flea market spaces are 6' x 8' with 8' table and 1 chair.  
Cost is \$15. Flea market spaces do not include admission.

Prices good through July 1.

### Booth and Ticket Sales

Mark Hanslip  
143 Schloss Lane  
Dayton, Ohio 45418  
(513) 263-FEST

Official Travel Agent  
Uniglobe One-stop Travel  
Contact: John Zulauf  
(513) 426-1111

TM - Computerfest is a trademark of the Dayton Microcomputer Association, Inc

or call us for Computerfest<sup>TM</sup>'88 updates on our BBS at (513)293-1754

New equipment Keyboards Joysticks User groups Printers Modems Power supplies Cables Books

Used equipment Systems Monitors Diskettes Cables Seminars Modems Software Disk drives

# Computerfest™ '88 Program Information Collection

For Computerfest™ 88 we would like to present a listing of User Groups and BBS Systems in the Mid-West. To do this we need your help. If you are a member of a User Group or a user of a BBS System please ask your club officers or SYSOP to provide the information requested below. Please mail the information to The Dayton Microcomputer Assoc. c/o Dayton Museum of Natural History, 2629 Ridge Avenue, Dayton, Ohio 45414-5499. **DEADLINE July 10, 1988**

## Bulletin Board System Information

BBS Name \_\_\_\_\_ BBS Phone \_\_\_\_\_  
BBS City \_\_\_\_\_ State \_\_\_\_\_ Fee for use ☐Yes ☐No  
Hours of Operation ☐24 hrs. 7 days ☐Other \_\_\_\_\_  
Baud ☐300 ☐1200 ☐2400 ☐Other \_\_\_\_\_  
Param. ☐7-E-2 ☐8-E-1 ☐Other \_\_\_\_\_  
Features \_\_\_\_\_  
Primary Interest \_\_\_\_\_  
SYSOP's Name \_\_\_\_\_ Voice Phone \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

## User Group Information

User Group Name \_\_\_\_\_  
Primary Interest \_\_\_\_\_  
When & Place you meet \_\_\_\_\_  
Contact Persons Name \_\_\_\_\_ Phone \_\_\_\_\_  
Offical Mailing Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

=====

Please Feel Free to Copy this form and pass it along

**VENDORS - Ask about advertising in the Computerfest Program**

FOR MORE INFORMATION CALL:

**( 5 1 3 ) 2 6 3 - F E S T**